

Recombinant Human Smad2 protein ab85329

1 图像

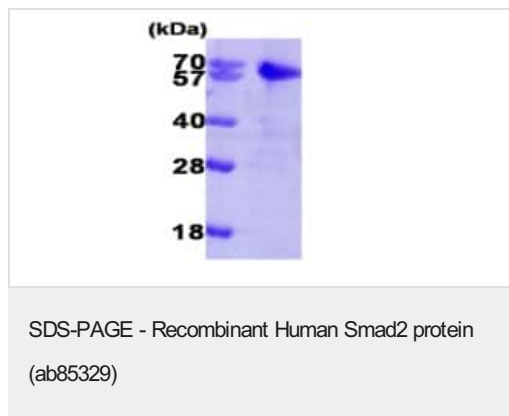
描述	
产品名称	重组人Smad2蛋白
纯度	> 95 % SDS-PAGE. ab85329 was purified using conventional chromatography techniques.
内毒素水平	< 1.000 Eu/μg
表达系统	Escherichia coli
Accession	<u>Q15796</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	<div>MGSSHHHHHH SSGLVPRGSH MSSILPFTTP</div> <div>VVKRLLGWKK SAGGSGGAGG GEQNGQEEKW</div> <div>CEKAVKSLVK KLKKTGRLDE LEKAITTQNC</div> <div>NTKCVTIPSTCSEIWGLSTP NTIDQWDTTG LYSFSEQTRS</div> <div>LDGRLQVSHR KGLPHVIYCR LWRWPDHSH</div> <div>HELKAIENCE YAFNLKKDEV CVNPYHYQRV</div> <div>ETPVLPPVLVPRHTEILTEL PPLDDYTHSI PENTNFPAGI</div> <div>EPQSNYIPET PPPGYISEDG ETSDQQLNQS</div> <div>MDTGSPAELS PTTLSPVNHS LDLQPVTYSE</div> <div>PAFWCSIAYYELNQRVGETF HASQPSLTVD GFTDPSNSER</div> <div>FCLGLLSNVN RNATVEMTRR HIGRGVRLYY</div> <div>IGGEVFAECL SDSAIFVQSP NCNQRYGWHP</div> <div>ATVCKIPPGCNLKIFNNQEF AALLAQSVNQ GFEAVYQLTR</div> <div>MCTIRMSFVK GWGAEYRRQT VTSTPCWIEL</div> <div>HLNGPLQWLD KVLTMGSPS VRCSSMS</div>
预测分子量	54 kDa
氨基酸	1 to 467

技术指标

Our **Abpromise guarantee** covers the use of **ab85329** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE
形式	Liquid
制备和贮存	
稳定性和存储	<p>Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.</p> <p>pH: 8.00</p> <p>Constituents: 0.316% Tris HCl, 0.58% Sodium chloride</p>
常规信息	
功能	<p>Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma.</p>
组织特异性	Expressed at high levels in skeletal muscle, heart and placenta.
序列相似性	<p>Belongs to the dwarfin/SMAD family.</p> <p>Contains 1 MH1 (MAD homology 1) domain.</p> <p>Contains 1 MH2 (MAD homology 2) domain.</p>
翻译后修饰	<p>Phosphorylated on one or several of Thr-220, Ser-245, Ser-250, and Ser-255. In response to TGF-beta, phosphorylated on Ser-465/467 by TGF-beta and activin type 1 receptor kinases. Able to interact with SMURF2 when phosphorylated on Ser-465/467, recruiting other proteins, such as SNON, for degradation. In response to decorin, the naturally occurring inhibitor of TGF-beta signaling, phosphorylated on Ser-240 by CaMK2. Phosphorylated by MAPK3 upon EGF stimulation; which increases transcriptional activity and stability, and is blocked by calmodulin. In response to TGF-beta, ubiquitinated by NEDD4L; which promotes its degradation.</p> <p>Acetylated on Lys-19 by coactivators in response to TGF-beta signaling, which increases transcriptional activity. Isoform short: Acetylation increases DNA binding activity in vitro and enhances its association with target promoters in vivo. Acetylation in the nucleus by EP300 is enhanced by TGF-beta.</p>
细胞定位	<p>Cytoplasm. Nucleus. Cytoplasmic and nuclear in the absence of TGF-beta. On TGF-beta stimulation, migrates to the nucleus when complexed with SMAD4. On dephosphorylation by phosphatase PPM1A, released from the SMAD2/SMAD4 complex, and exported out of the nucleus by interaction with RANBP1.</p>
图片	



15% SDS-PAGE analysis of 3µg ab85329

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